



wood.



FEMA

Marion County, KS Flood Risk Review Meeting

November 17, 2020

While we are waiting, please enter your favorite holiday tradition in the chat box!

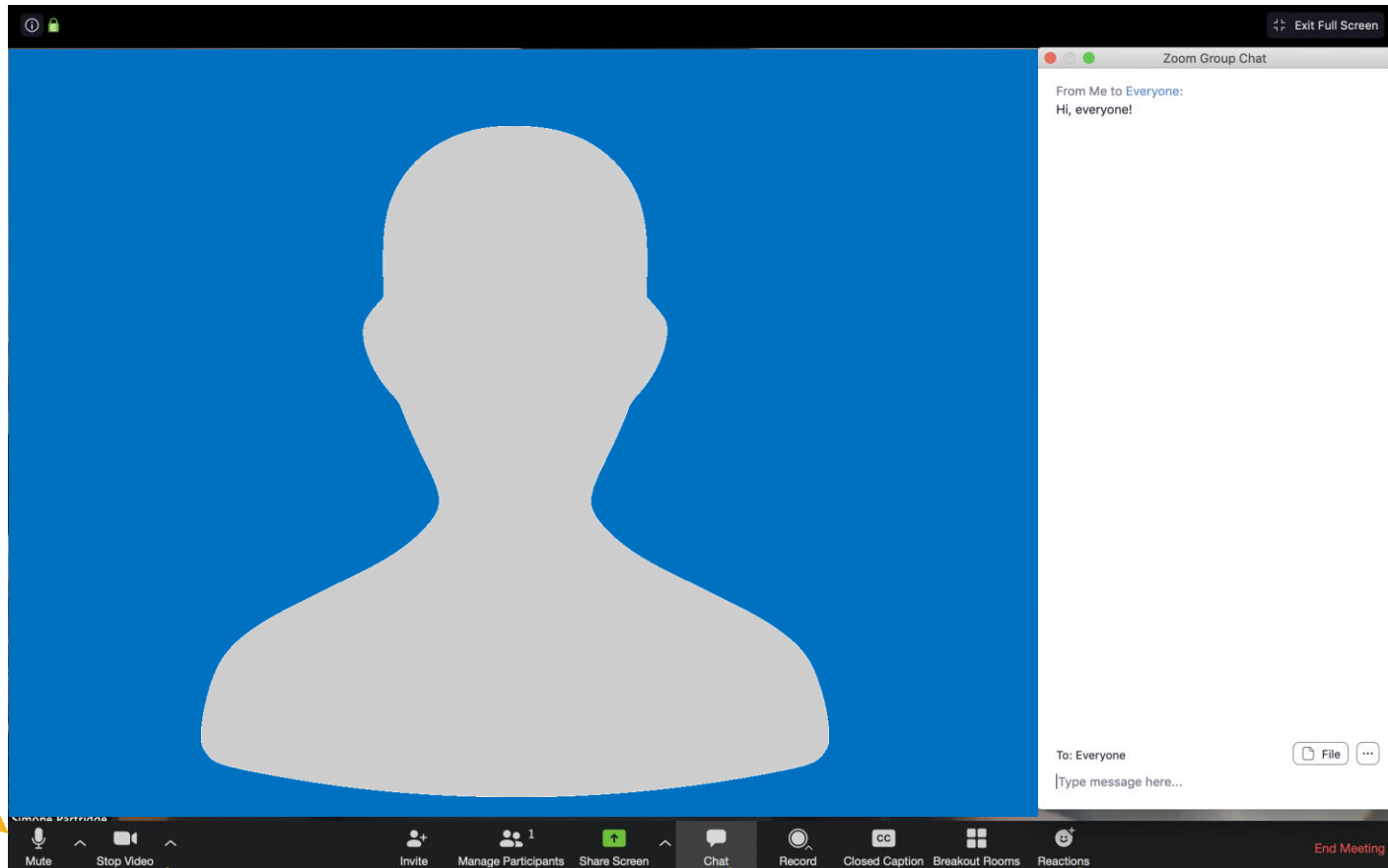
THANK YOU!

*We appreciate the time you are giving to this work
and we want to use it wisely.*

*Your feedback at this point in the project is **very important**.*

Zoom Features

*Mute /
Unmute*



Start your Video

*Use the Chat
Feature*

Reactions



Rules of the Road

- Attendees will be muted during the presentation to help eliminate background noise.
- Use the chat to ask questions during the presentation! We will pause for questions at various stopping points and have several poll questions.
- If you want to share your video, please do!
- For technical difficulties, send a private chat to Joanna Rohlf; or email Joanna.Rohlf@ks.gov
- We'll be recording this webinar for those who aren't able to attend today.

Intros

Kansas Department of Agriculture

Tara Lanzrath, CFM
Floodplain Mapping Coordinator

Joanna Rohlf, CFM
Floodplain Mapping Specialist

William Pace, CFM
Floodplain Mapping Specialist

Steve Samuelson, CFM
State NFIP Coordinator

Cheyenne Sun Eagle
NFIP Specialist

FEMA – Region VII

Andy Megrail – Regional Project Officer



Wood Environment & Infrastructure Solutions Inc.

Joe File, PE, CFM - Senior Associate /
Program Manager

Maria Neeland PE, CFM – Project Manager

Why We Are Here



Today's Goals

- Review how we developed your flood risk data
- Get your feedback on the flood risk data
- Review future steps

Main Takeaway: We want your feedback while your map is still in draft form and there is time to incorporate feedback

First, a brief recap



Over the past 30 years, flooding has been more dangerous in the U.S. than any other weather-related problem. To minimize flood damage, we must first understand where the risk is.

Why Have Floodplain Maps?

- Understand the risk so you can make informed planning decisions and avoid future flood damage in your community.
- Determine where flood insurance is needed and rate its cost.
 - Flood Insurance Rate Map (FIRM)
- Provide the basis for updating community floodplain management ordinances.
 - These ordinances are your tool for reducing your community's vulnerability to flood risk.

FEMA Floodplain Mapping Program



- Risk Mapping Assessment and Planning (Risk MAP)
- Supports the National Flood Insurance Program (NFIP); performed on a watershed basis.
- Consists of both Regulatory and Non-Regulatory Products.
- Through Risk MAP, we provide updated floodplain maps, as well as other (free!) data and tools that can help you plan to reduce your community's risk.

RiskMAP
Increasing Resilience Together

How Did We Get Here?

- Base Level Engineering (BLE) - 2019
 - Gives us early insight into your flood risk
 - Kick off Meeting held on January 15, 2019
 - Discovery and Initial Map Review Meeting held on September 26, 2019

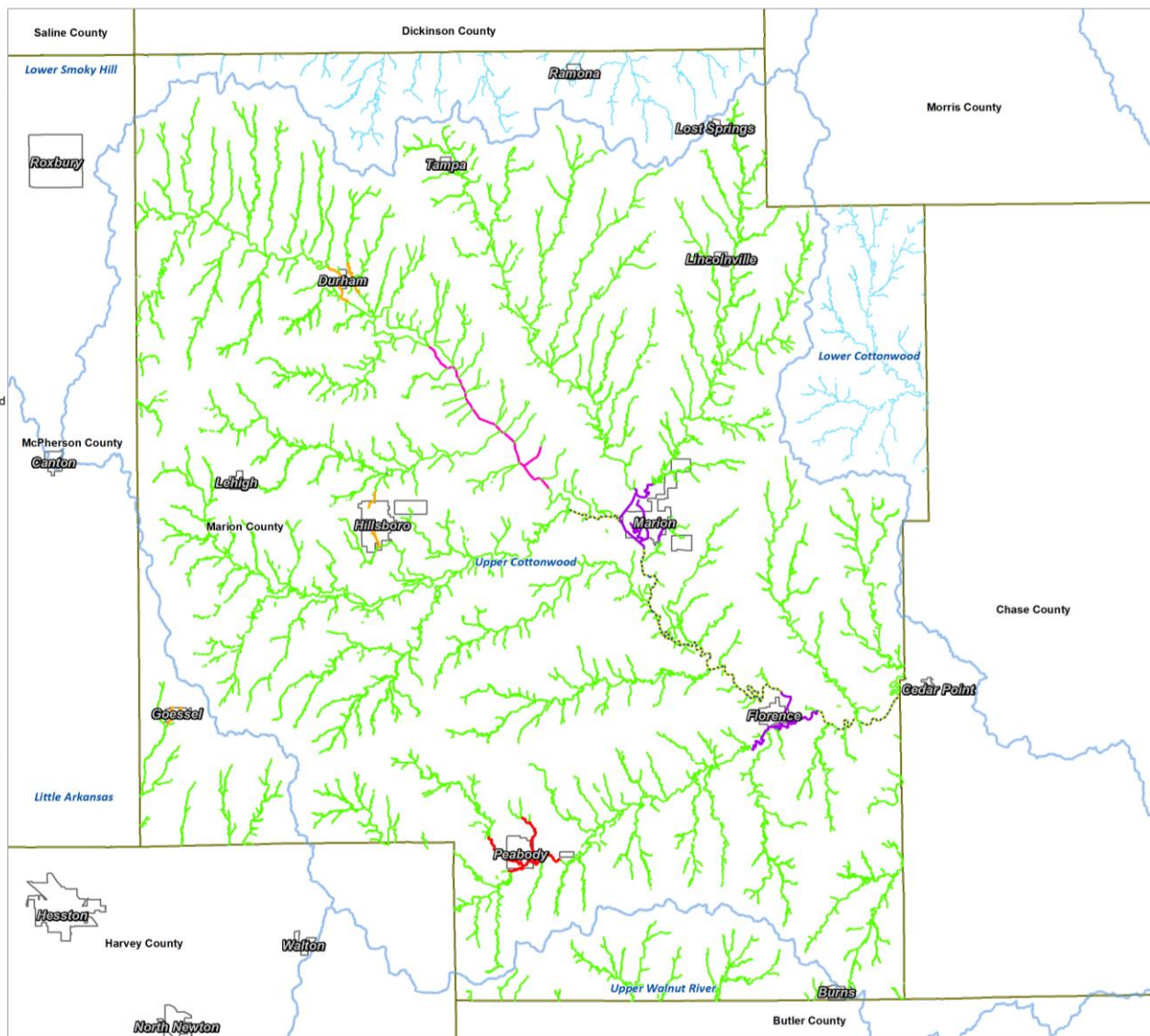
- Data Development – 2020
 - Enhance the engineering analysis
 - Develop regulatory draft floodplain maps
 - Develop Flood Insurance Study
 - Develop flood risk data tools for your community

Marion County- Mapping Update

Scoped Studies

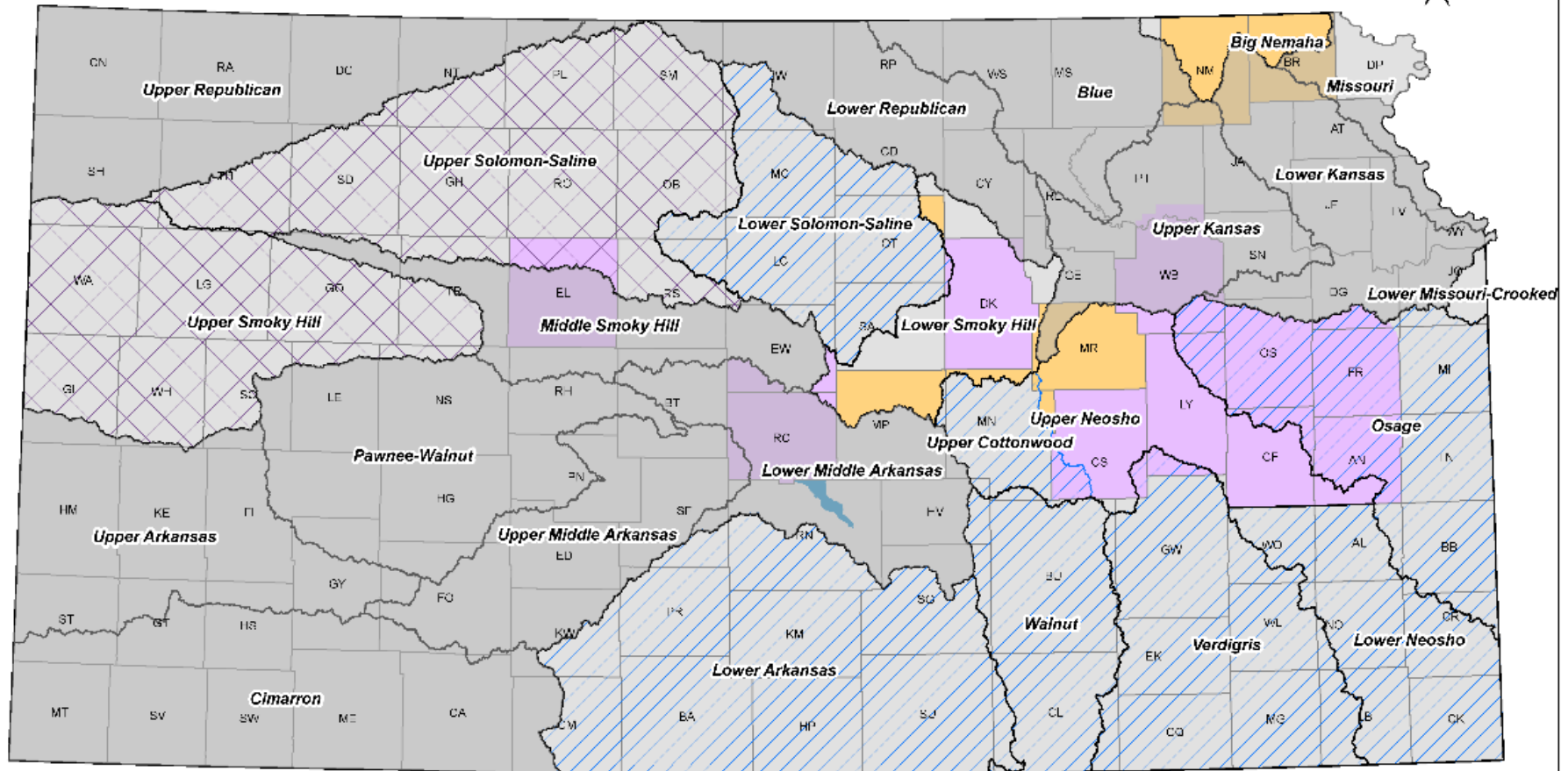
- **New Zone A- Excess Rainfall On Grid**
New Zone A studies will be developed for these streams using 2D "excess rainfall-on-grid" hydrology, and Hec-Ras 2D hydraulics.
- - - **New Zone A - Gage Analysis**
New Zone A studies will be developed for these streams using 2D "excess rainfall-on-grid" hydrology calibrated to Gage Analysis Flows, and 2D Hec-Ras hydraulics.
- **New Enhanced Zone A - Rainfall Runoff**

New Enhanced Zone A studies will be developed for these streams using 2D "excess rainfall-on-grid" hydrology calibrated to HEC-HMS Flows, and 2D Hec-Ras hydraulics. Field measured structure data will be incorporated into the modeling.
- **New Zone AE With Floodway- Rainfall Runoff**
New Zone AE with Floodway studies will be developed for these streams using Rainfall Runoff hydrology. Survey data will be collected. Either 1D or 2D HEC-RAS modeling will be used for hydraulics. A floodway will be developed.
- **New Zone AE -Existing Study**
New studies developed during levee certification efforts exist for these streams through projects that were funded separately. Those floodplains will be incorporated into this mapping.
- **New Static Zone AE**
New Static Zone AE studies will be developed for these streams using a statistical frequency analysis.
- **New Zone A- Incorporation of Lower Cottonwood Watershed and Lower Smoky Hill Watershed Studies**
New Zone A studies from the Lower Cottonwood Watershed and Lower Smoky Hill Watershed projects will be incorporated into the new mapping.



We Do This Work Across Kansas

Current Floodplain Mapping Projects and Custom Watersheds



July 29, 2020

Project Status

- Draft
- Preliminary
- LFD

Watershed Projects

- Custom Watersheds (labeled)
- FY18 BLE Projects - Data Available
- FY19 BLE* - Starting Development
- FY20 BLE - Proposed

*Not all watershed areas will be included.
Please check with KDA for details.

0 25 50 100 Miles

Definitions



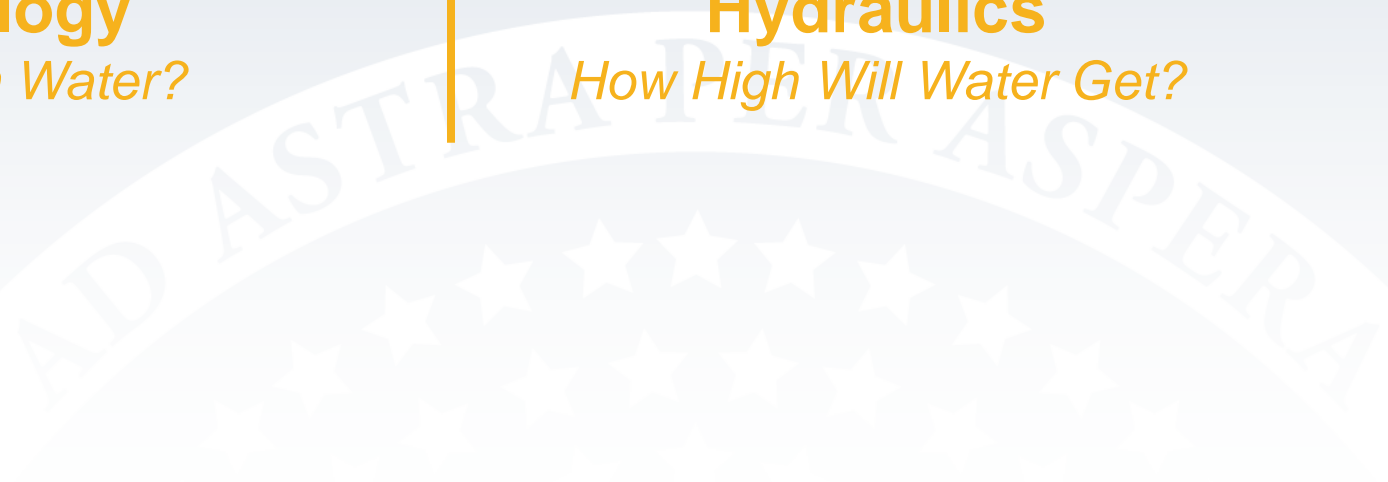
Hydrology

How Much Water?



Hydraulics

How High Will Water Get?





Data Gathered

- Information gathered during the BLE Phase of the project was incorporated and/or used for validation of modeling
- Survey and as-built plan information was gathered for bridge and culvert openings



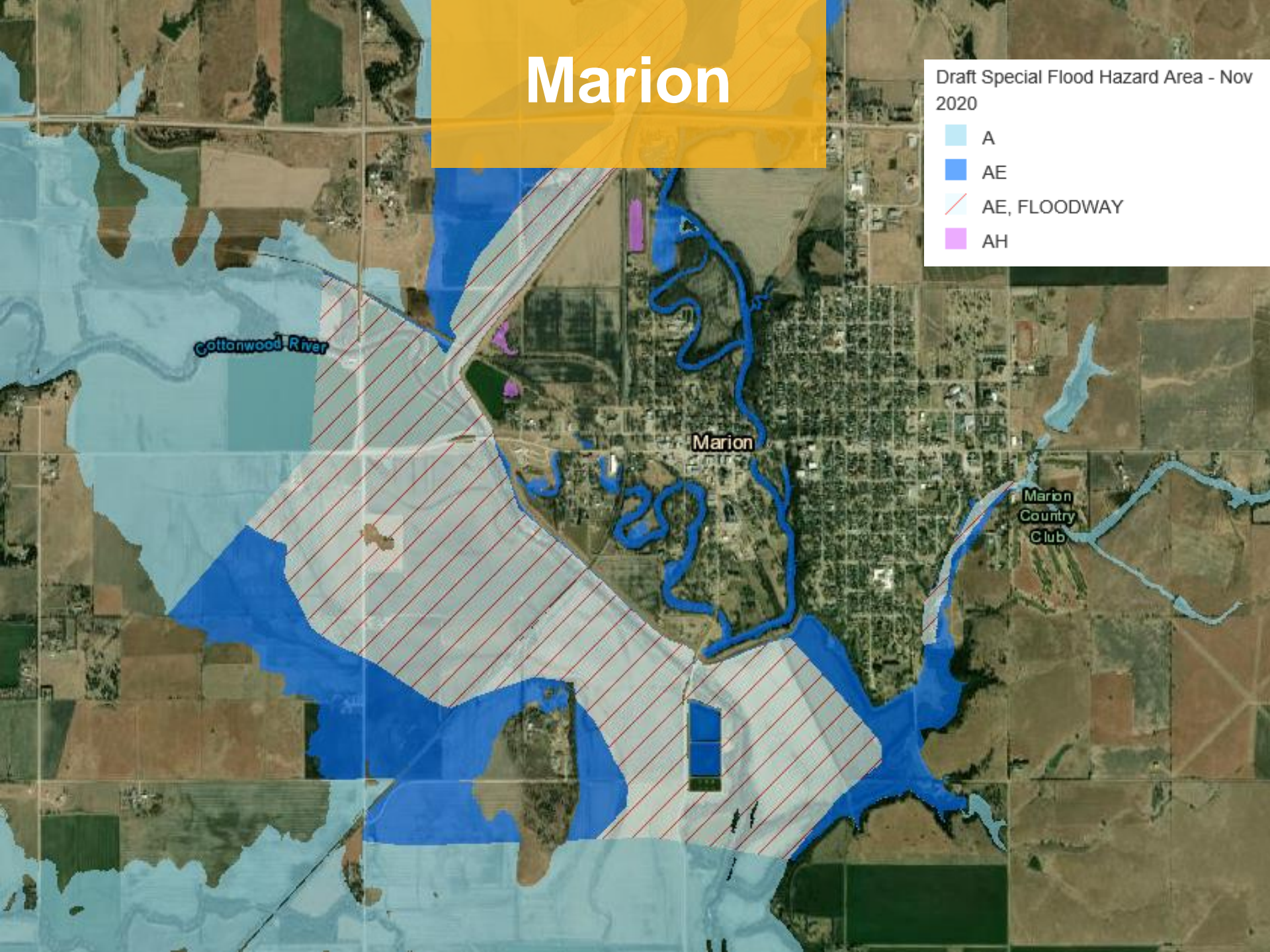
Marion Levee System

- Recent Study for Marion Levee System was previously completed
 - Effective date of the PMR was July 19, 2018
- The new studies completed for the July 20, 2018 mapping update for the City of Marion were not changed as a result of this mapping update.

Marion

Draft Special Flood Hazard Area - Nov 2020

- A
- AE
- AE, FLOODWAY
- AH





Florence Levee System

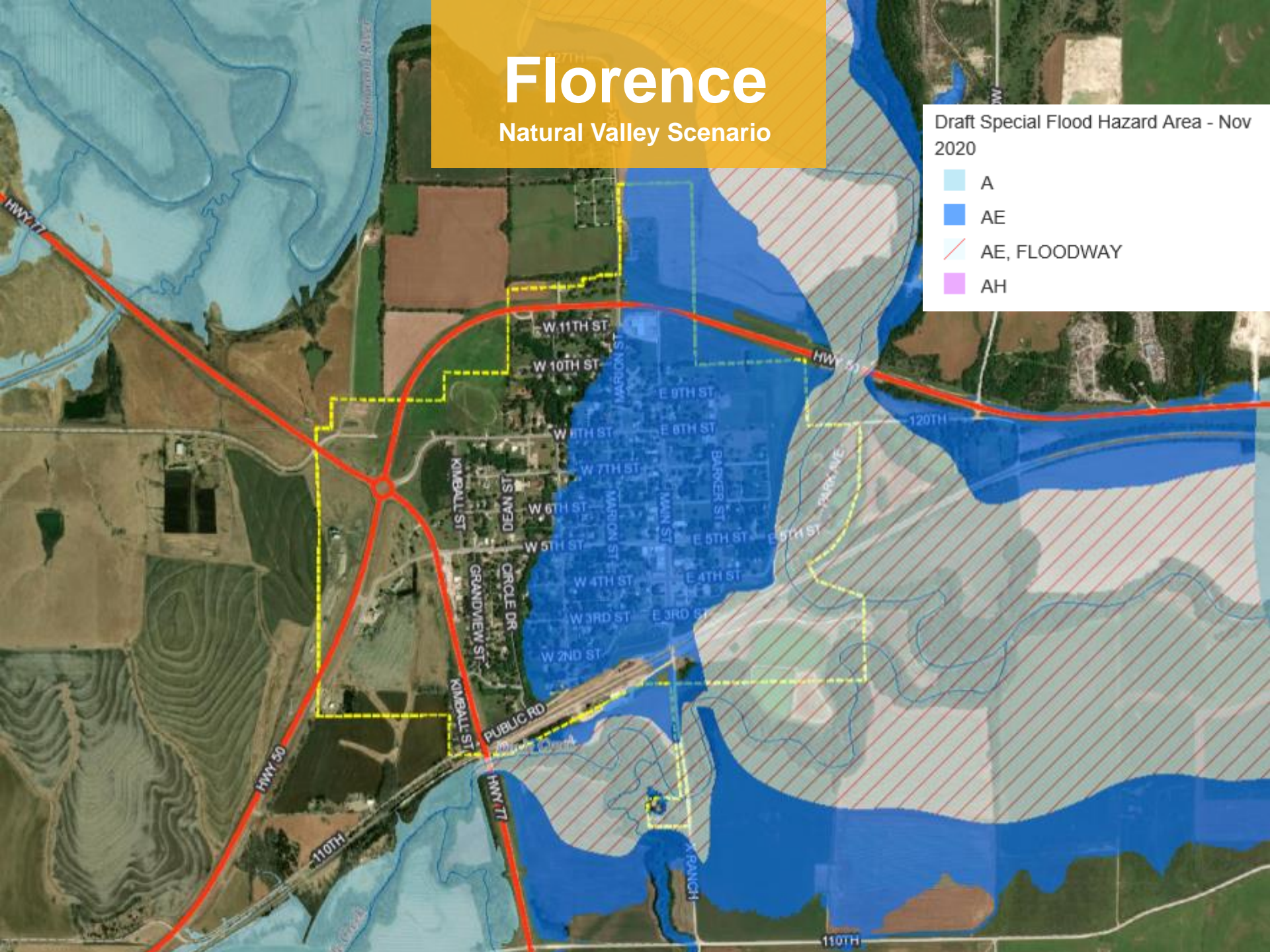
- A Levee Certification Project for the Florence Levee System is nearing completion.
- Interior ponding areas from the Florence Study have been incorporated into the draft floodplain maps as Zone AH areas.
- Submittal to FEMA is anticipated for the end of 2020.
 - Indications are that the levee system meets the 44 CFR 65.10 FEMA requirements

Florence

Natural Valley Scenario

Draft Special Flood Hazard Area - Nov 2020

- A
- AE
- AE, FLOODWAY
- AH

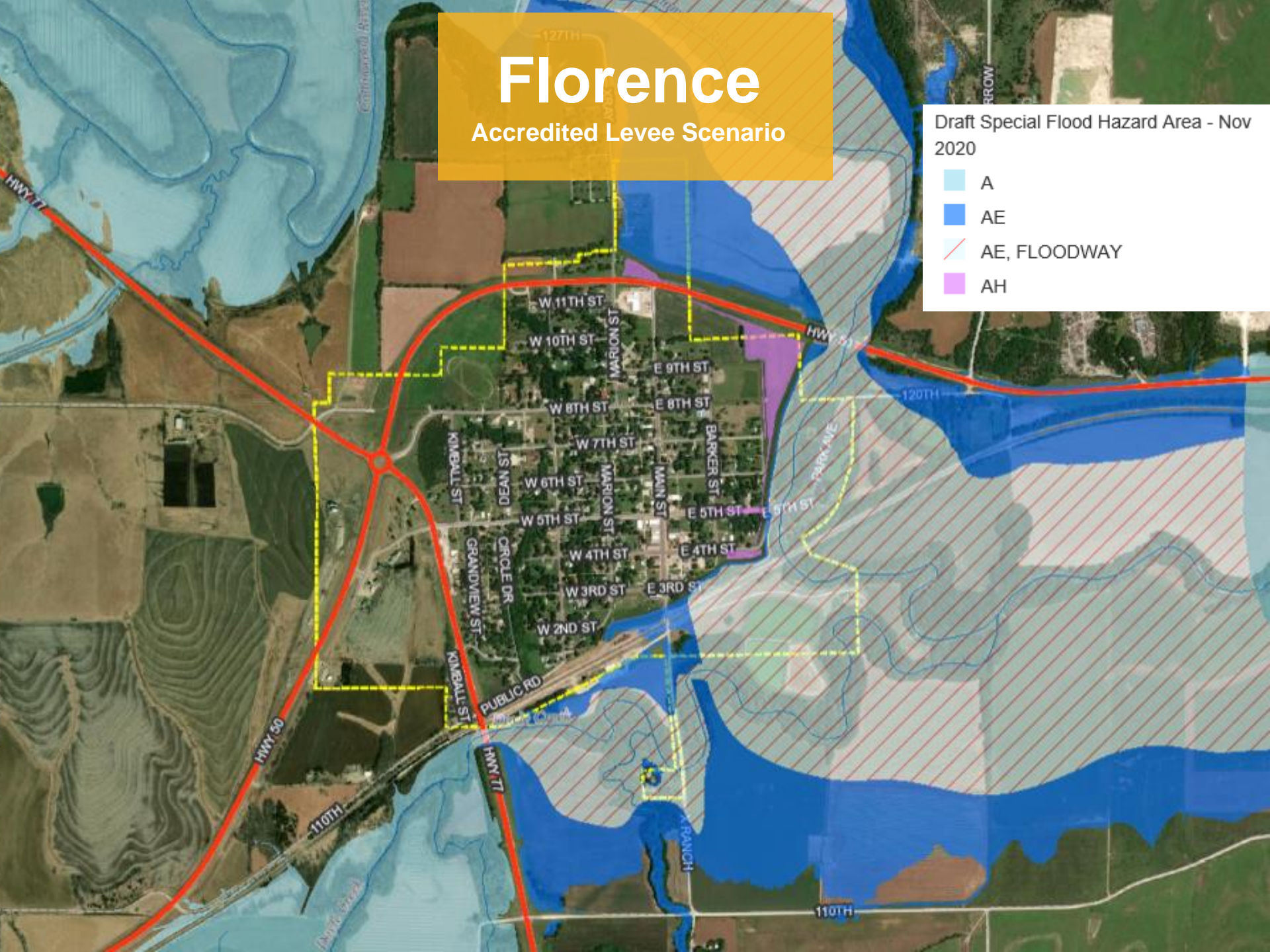


Florence

Accredited Levee Scenario

Draft Special Flood Hazard Area - Nov 2020

- A
- AE
- AE, FLOODWAY
- AH



Example of Zone AE with Floodway



Example of Zone A



Changes Since Last FIRM

Compares the Draft Floodplains to the Current Effective Floodplains



Proposed to be out of (removed from) the Floodplain






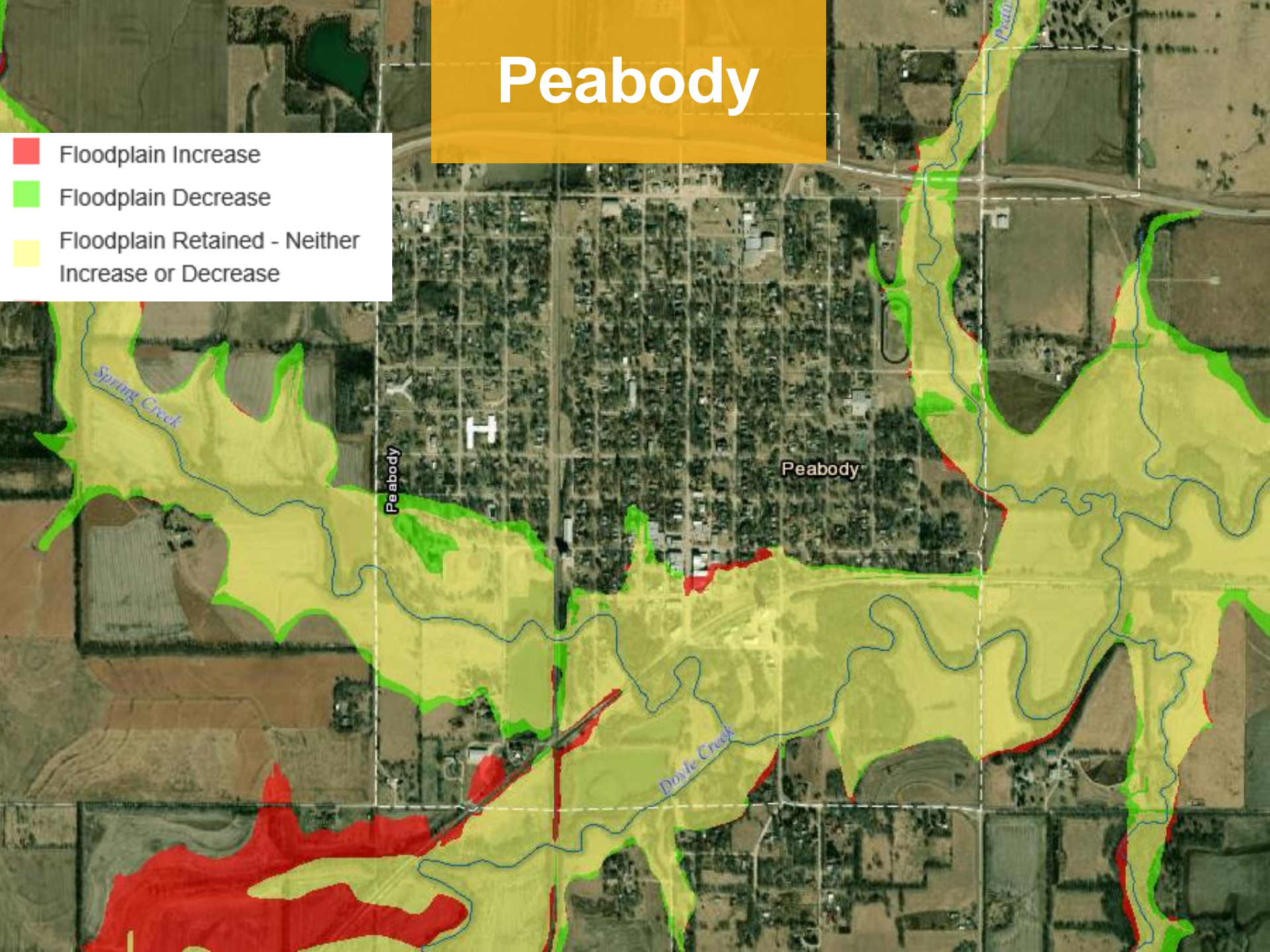
Proposed to remain in the Floodplain



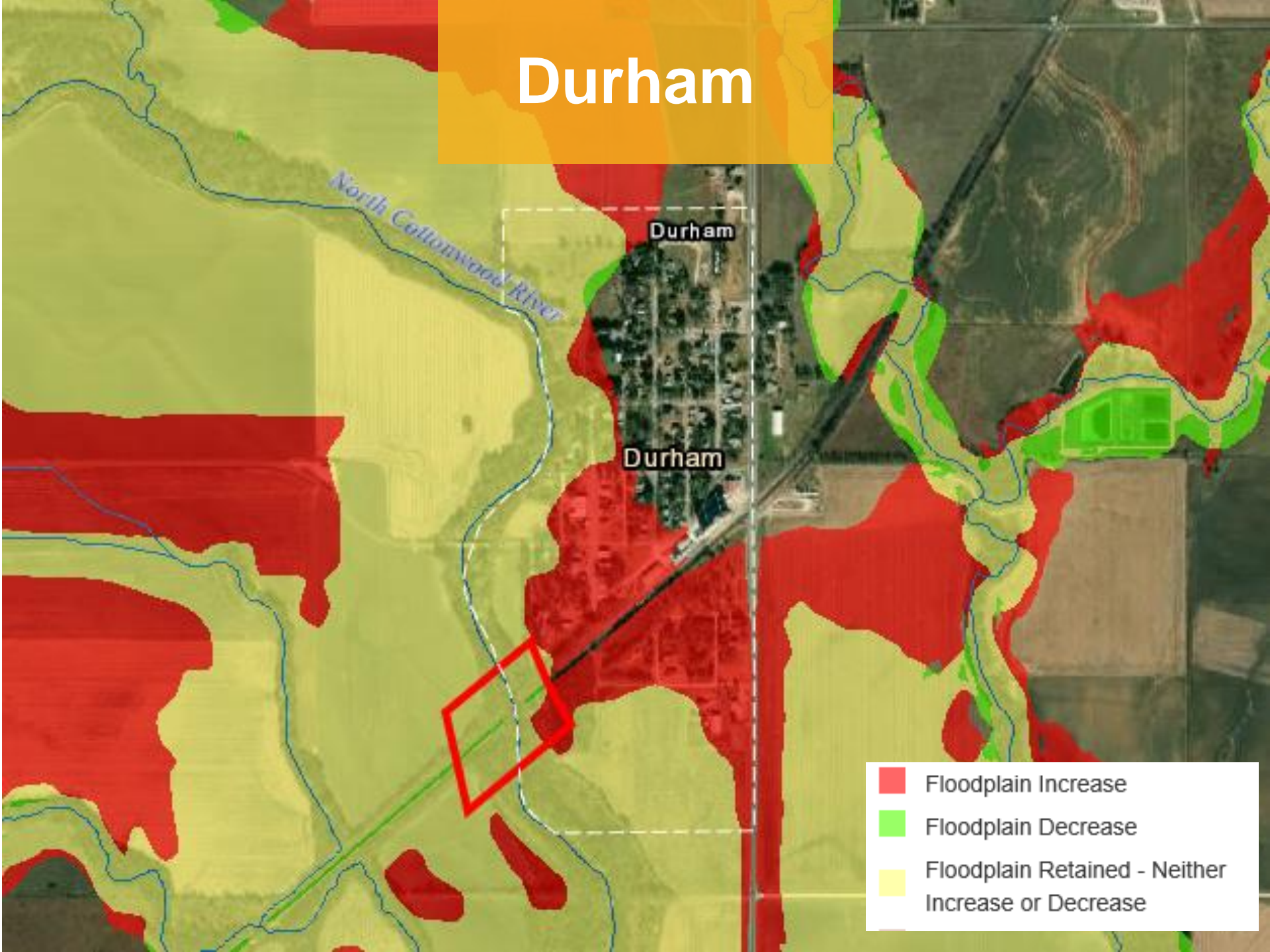
Proposed to be in (added to) the Floodplain

Peabody

-  Floodplain Increase
-  Floodplain Decrease
-  Floodplain Retained - Neither Increase or Decrease

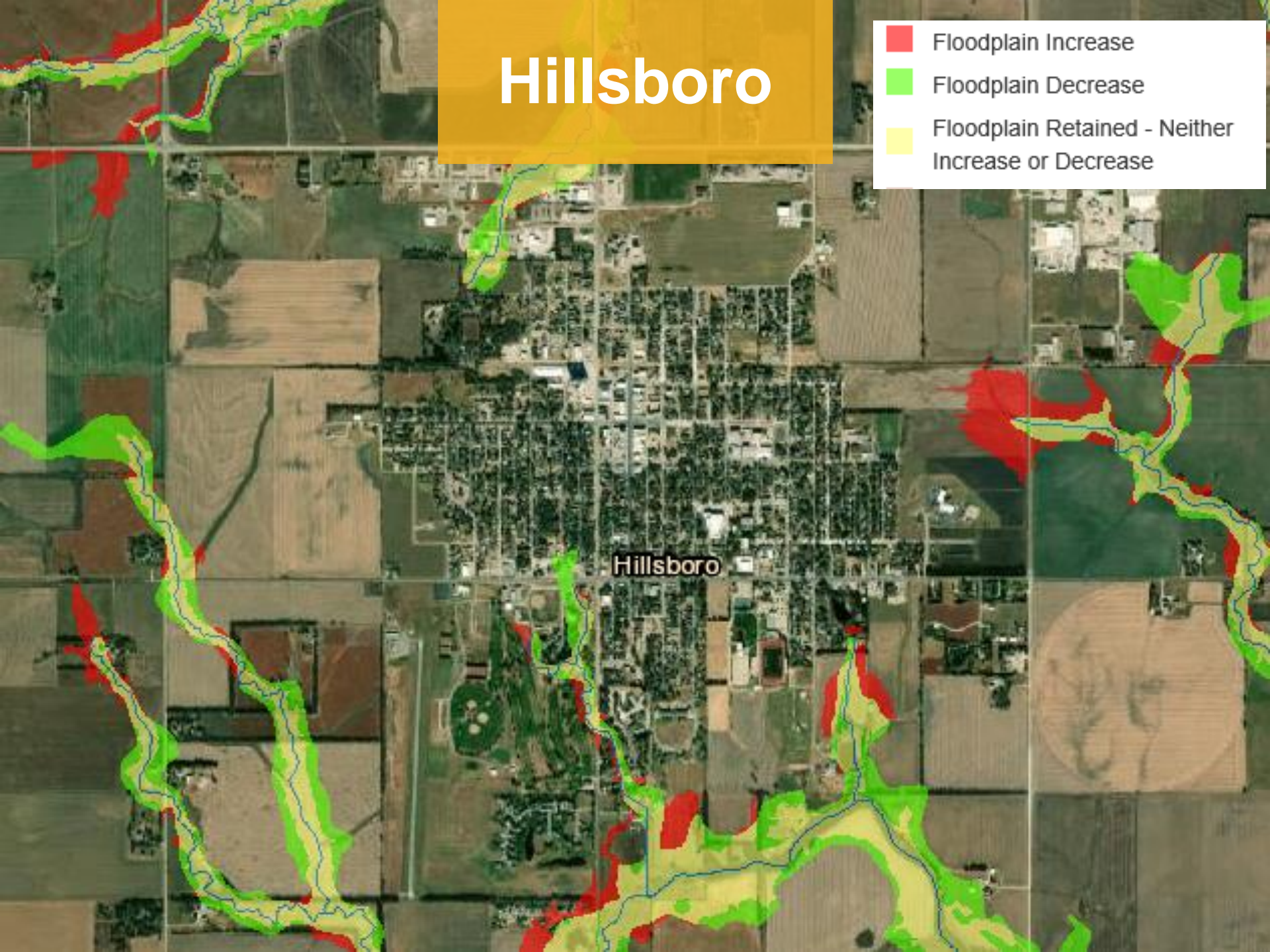


Durham

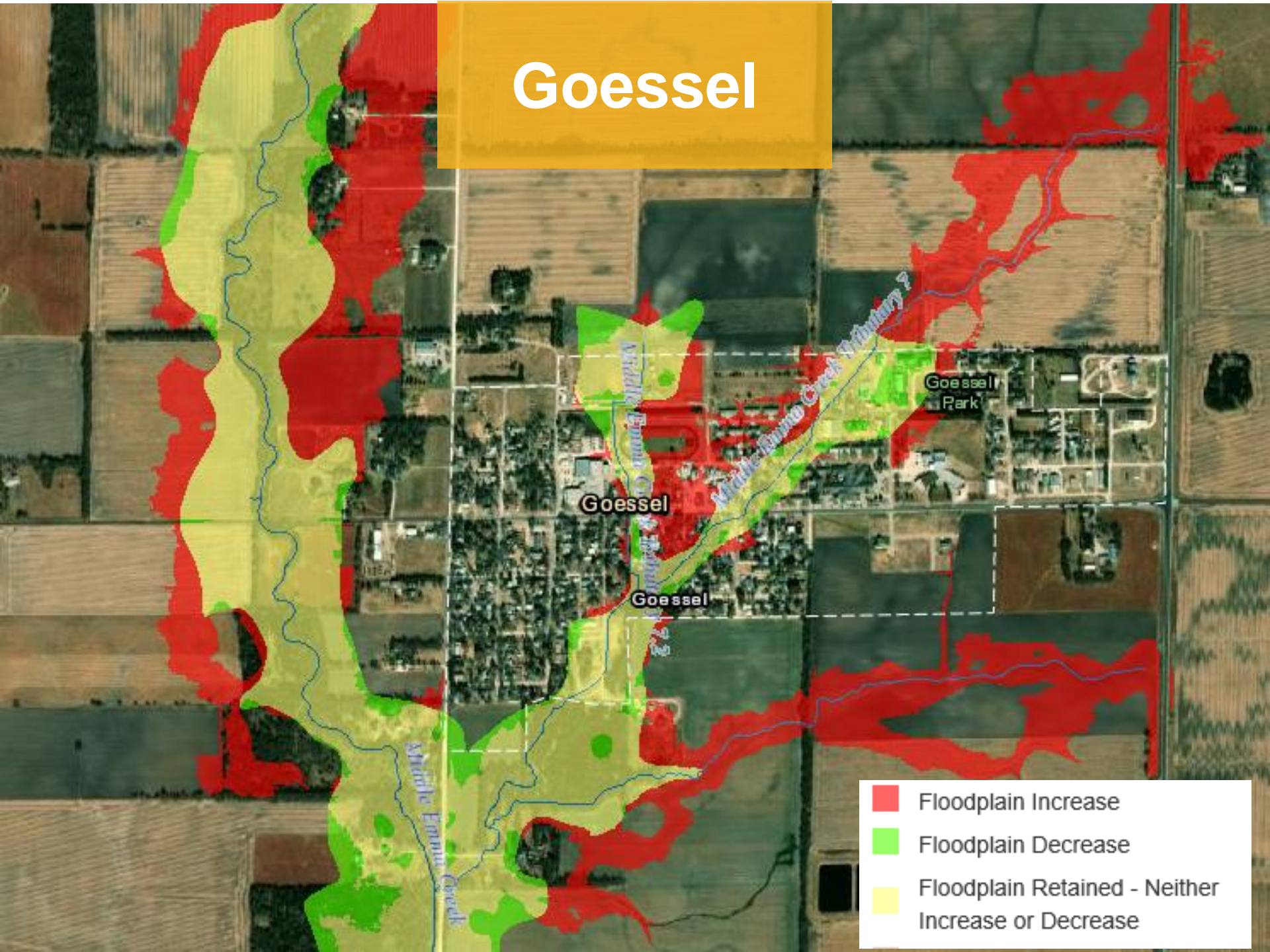


Hillsboro

- Floodplain Increase
- Floodplain Decrease
- Floodplain Retained - Neither Increase or Decrease



Goessel

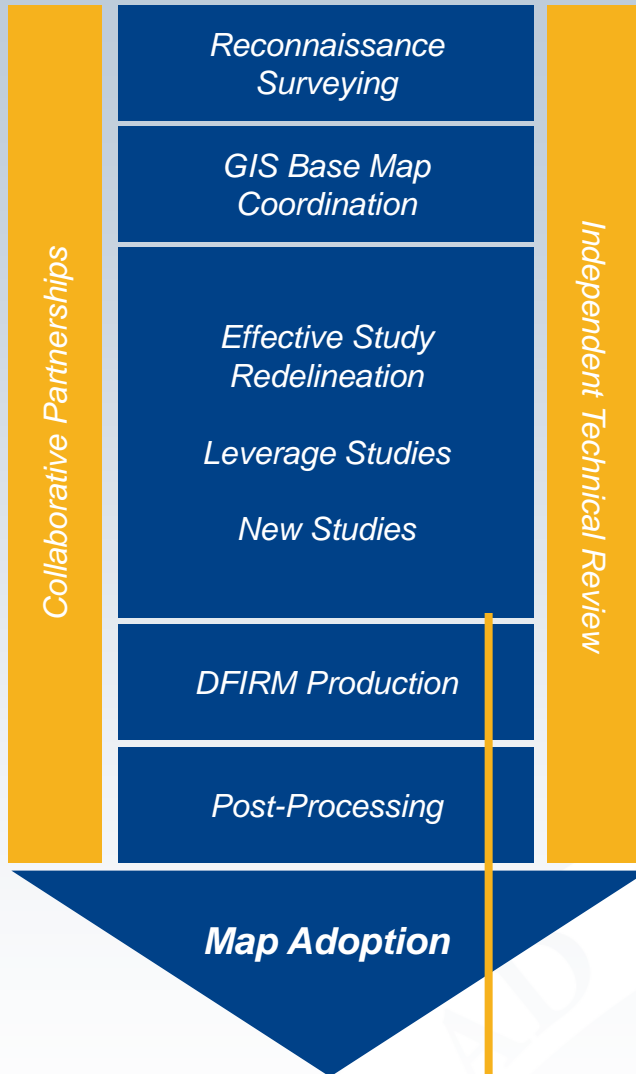


- Floodplain Increase
- Floodplain Decrease
- Floodplain Retained - Neither Increase or Decrease

Project Tasks

1. Discovery
2. Base Map Preparation
3. Survey and Topography
4. New Studies
5. DFIRM and FIS Production
6. Post-Preliminary

Finishing this phase: data development



Your Maps Undergo Significant Review



- Wood E&IS Review
 - Engineering reviewed by separate Wood E&IS office
- Independent Technical Review (ITR)
 - Third party review of engineering
 - AECOM
- KDA Review
 - Visual review
 - Eye test
 - Identify impact of the map
- FEMA Review
 - Formal quality review process of regulatory products
- Your Review!
 - Community Review
 - Public Review

Community Map Review



Your Map Review

This is your opportunity to have impact!

- We want to agree on what your map looks like before Preliminary Status
 - That's when we enter the regulatory map-making phase, and it's harder to change things
- A web map has been provided for review
 - <https://gis2.kda.ks.gov/gis/upper-cottonwood/>
- This is where **YOU** look out for **YOU: please provide your comments by December 17, 2020**

Legend

Floodplain Data

Draft Changes Since Last FIRM - Nov 2020

- Floodplain Increase
- Floodplain Decrease
- Floodplain Retained - Neither Increase or Decrease

Comments



Layers (Click to expand)

Editor

Leave Comment

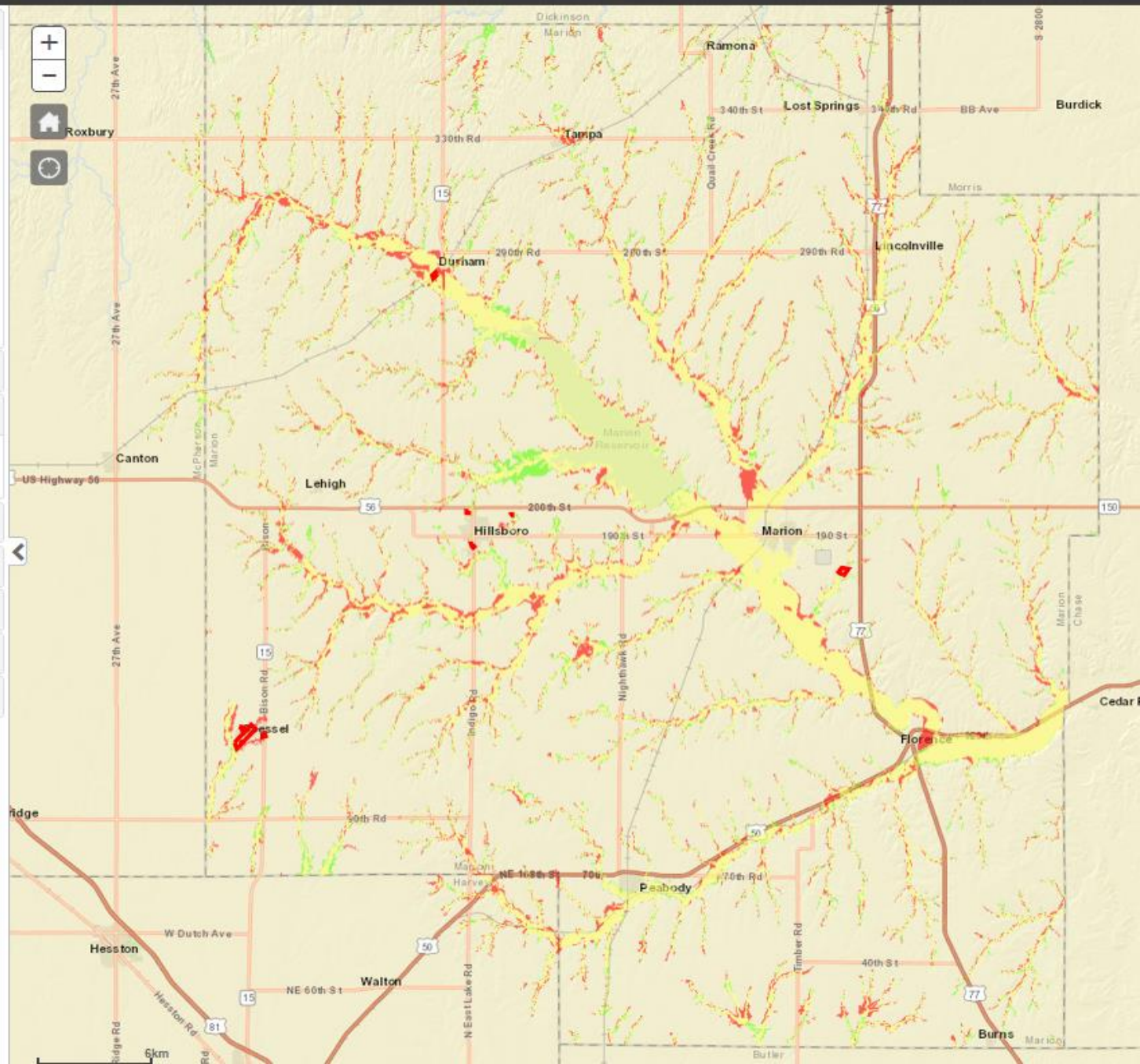
Draw

Measurement

Print

Directions

Google Street View



Your Map Review



Recent construction (e.g., a new building development that incorporated fill or changes to roadways, bridges, or culverts)



High Water Marks showing past flooding impacts



Floodplain boundaries that align with your experience of large-scale flooding



Model stream extents (where streams begin and end)



Political boundaries, especially if there is a recent annexation



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IMPORTANT STEP: All community comments will be addressed/reviewed before doing a public review

Your Residents Also Have the Opportunity to Review the Draft Data

- Can review and comment online, using same Review Web Map
- Will run for at least 30 days
- We will also hold an Open House
 - Typically consists of computer stations where public can discuss draft floodplains with KDA, engineers, mapping experts, and insurance specialists
 - Will adjust to virtual Open House, if needed
- We'll need your help notifying your residents and finding location
- Tentatively scheduled for May 2021, following Florence Levee Accreditation by FEMA





Open Discussion

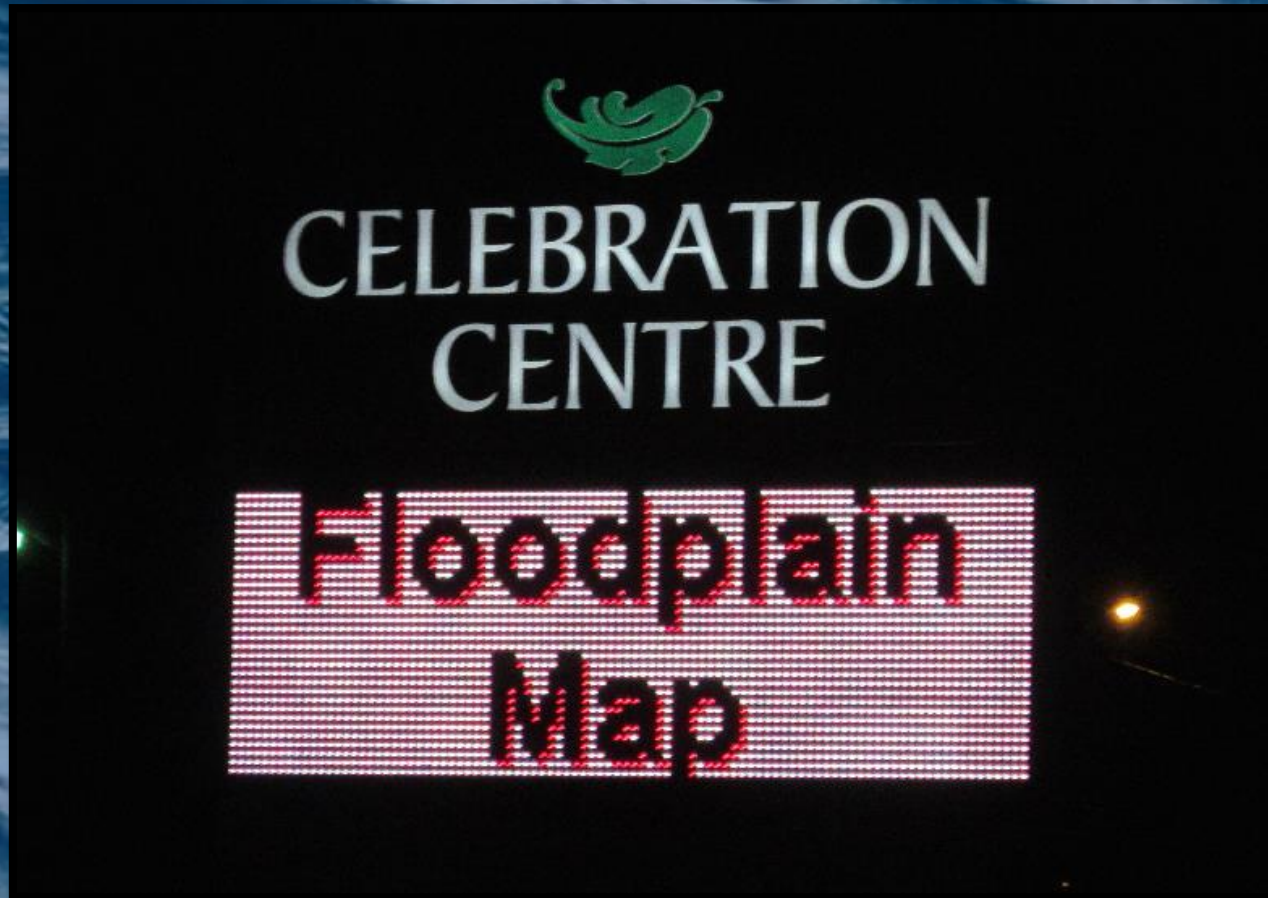
**Unmute your phones and
let's talk about this.**

Our questions:

- Do you think in-person or virtual Open House options would work for your community?
- Could you help promote an Open House?
- If so, how would you do that? Social media? Newsletters? Website posting? Direct mail?

***What are your questions?
We know you have some...***

Next Steps



Timeline Review

- Your Review
 - Please get comments in by December 17, 2020
- Public Open House
 - Estimated: May 2021
- Preliminary Map Distribution
 - Estimated: December 2021
- Preliminary DFIRM Community Coordination Meeting
 - Estimated: January 2022
- Appeal Period
 - Estimated: March-June 2022
- Letter of Final Determination
 - Estimated: October 2022
- Effective Maps
 - Estimated: April 2023

Where we still have flexibility to change the data

Where you have to follow a more formal process (with higher effort) to request any changes to the data

Your Next Steps

Review your community's maps and comment on areas of concern AND/OR areas that look right.

There are a few ways to do this:



Lead the public outreach for your community

We can help you target who most needs to know;
but will need your help to lead the outreach effort

Let us know if you need help or have any remaining questions!



Key Take-aways

Floodplain Mapping Projects take time

Your involvement in this process will result in better flood information for your community

Get it right before Preliminary!

***DON'T HESITATE TO CALL,
WE ARE HERE TO HELP***

Where to go for...

INFO



Online Project Information

- **Project Website**

- <https://www.agriculture.ks.gov/divisions-programs/dwr/floodplain/mapping/mapping-projects/lists/mapping-projects/upper-cottonwood>
- Scoping Maps, Project Timeline, Meeting Presentations, Newsletters, Technical Reports, Web Review Map

- **Web Review Map**


- <http://gis2.kda.ks.gov/gis/upper-cottonwood/>
- Draft Floodplain Review

- **Story Maps**

- Project Info
- “Floodplain Current”: Mapping Process ‘Nuts and Bolts’

Base Flood Elevation Portal





Kansas Base Flood Elevation Portal

[Home](#)[About](#)[Help](#)

Portal Registration

First Name	<input type="text"/>
Last Name	<input type="text"/>
User name	<input type="text"/>
Title	<input type="text"/>
Phone	<input type="text"/>
Email Address	<input type="text"/>
Address	<input type="text"/>
City	<input type="text"/>
Zip	<input type="text"/>
State	<input type="text" value="Kansas"/>

Register

For Zone A floodplains, you can request BFE Data. Keep in mind that the data is still subject to change.

Contact Information



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Regional Project Officer



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And now...

*We are going to show you how
to make comments and review
your community's map*

Any questions first?